

Attorney Docket No.: INT-0004  
Inventors: Mattern et al.  
Serial No.: 10/002,653  
Filing Date: October 19, 2001  
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This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1: (canceled)

Claim 2: (currently amended) The ~~composition of claim 1~~ scaffold or matrix of claim 13 further comprising a silicone layer applied to the collagen and glycosaminoglycan co-precipitate prior to cross-linking.

Claim 3: (currently amended) A terminally sterilized matrix or scaffold comprising the ~~composition of claim 1~~ scaffold or matrix of claim 13 terminally sterilized by electron beam irradiation.

Claim 4: (currently amended) A terminally sterilized matrix or scaffold comprising the ~~composition~~ scaffold or matrix of claim 2 terminally sterilized by electron beam irradiation.

Claim 5: (currently amended) A method for producing the ~~composition of claim 1~~ scaffold or matrix of claim 13 comprising cross-linking the collagen and glycosaminoglycan co-precipitate with glutaraldehyde at a density of cross-linkage which

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stabilizes the ~~composition scaffold or matrix~~ toward electron beam radiation ~~at about 15 to about 80 kGy while retaining~~ ~~characteristics of the composition to function as a~~ so that the matrix or scaffold ~~retains characteristics to function as a~~ structural support for cell and to support tissue ingrowth.

Claim 6: (currently amended) The method of claim 5 wherein cross-linking of the ~~composition~~ collagen and glycosaminoglycan co-precipitate is performed with glutaraldehyde at a concentration greater than 0.25%.

Claim 7: (currently amended) The method of claim 5 wherein the ~~composition~~ collagen and glycosaminoglycan co-precipitate is subjected to two or more glutaraldehyde cross-linking steps.

Claim 8: (original) The method of claim 7 wherein the two or more cross-linking steps are performed with glutaraldehyde at 0.25%.

Claim 9: (currently amended) A method for producing a terminally sterilized matrix or scaffold comprising:

(a) producing a ~~composition of claim 1~~ scaffold or matrix of claim 13;

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(b) sealing the composition in a package; and  
(c) exposing the composition in the sealed package to  
electron beam radiation.

Claim 10: (canceled)

Claim 11: (original) A terminally sterilized matrix or scaffold  
produced in accordance with the method of claim 9.

Claim 12: (original) A method for regenerating dermal or sub-  
dermal tissue in a subject comprising applying to or implanting  
within the subject the terminally sterilized matrix or scaffold  
of claim 3 at or near an excision site of dermal or subdermal  
tissue or a site where augmentation of dermal or subdermal tissue  
is required.

Claim 13: (currently amended) A ~~composition scaffold or matrix~~  
comprising a collagen and glycosaminoglycan ~~co-precipitate~~ cross-  
linked with glutaraldehyde at a density of cross-linkage which  
stabilizes the ~~composition scaffold or matrix~~ toward electron  
beam radiation at about 15 to about 80 kGy while retaining  
~~characteristics of the composition to function as a so that the~~

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matrix or scaffold retains characteristics to function as a  
structural support for cell and to support tissue ingrowth.